Dr Sarah O’Hana

Laser surface colouring of titanium for contemporary jewellery
Laser surface colouring of titanium for contemporary jewellery

Drawings from the sketchbook of Sarah O’Hana for transfer to titanium by laser

**Academic:** Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Extreme differences between workshop and laboratory environments

Laser Processing Research Centre, The University of Manchester

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Sarah O’Hana in the Laser Processing Research Centre, The University of Manchester

Sarah O’Hana working with Dr Philip Crouse, The University of Manchester

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Ocular Series 1-6. Acrylic, laser marked titanium, silver, recovered lens

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Ocular Series 1-6. Acrylic, laser marked titanium, recovered lens

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Ocular Series 1-6. Close up to show laser path in acrylic and marking on titanium

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Ocular Series 1-6. Acrylic casing to hold titanium plates

Academic: Sarah O’Hana
Sample 13 shows different colours achieved with controlled laser parameters

Sample 13 showing selected colours cut for observation and analysis

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Sample 13 prepared colour tests

Scanning Electron Microscope used to capture images from Sample 13
Laser surface colouring of titanium for contemporary jewellery

Colour test from Sample 13 and corresponding view using SEM photography
Laser surface colouring of titanium for contemporary jewellery

Close up showing craters in titanium oxide due to power surge from initial laser irradiation

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Opening of exhibition *From Art to Engineering*, George Begg building, The University of Manchester:

*Academic:* Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Opening of the exhibition Walking with Scientists at the Museum of Manchester during Ars Ornata Europeana conference where first parts of Ocular Series 1- were shown

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery
Laser surface colouring of titanium for contemporary jewellery

Poster showing work from Laser surface colouring of titanium for contemporary jewellery

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery

Poster showing work from Laser surface colouring of titanium for contemporary jewellery, shown at the Mechanical, Aerospace and Civil Engineering PhD conference, The University of Manchester

Academic: Sarah O’Hana
Laser surface colouring of titanium for contemporary jewellery